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FILE 'WPIDS' ENTERED AT 13:55:31 ON 06 MAR 2007

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=> S L1

L2 24764 L1

=> S (gene or sequence or polynucleotide or clone or recombinant) (s) L2

8 FILES SEARCHED...

L3 3775 (GENE OR SEQUENCE OR POLYNUCLEOTIDE OR CLONE OR RECOMBINANT)
(S) L2

=> S (mutatnt or variant or mutat?)(s) L3

L4 387 (MUTATNT OR VARIANT OR MUTAT?)(S) L3

=> S ((active (w) site) or domain or motif)(s) L4

L5 60 ((ACTIVE (W) SITE) OR DOMAIN OR MOTIF)(S) L4

=> S oxygen (s) L5

L6 3 OXYGEN (S) L5

=> S oxygen and L5

L7 29 OXYGEN AND L5

=> S (resistant or tolerant or sensitive) and L7

L8 28 (RESISTANT OR TOLERANT OR SENSITIVE) AND L7

=> dup rem l8

PROCESSING COMPLETED FOR L8

L9 28 DUP REM L8 (0 DUPLICATES REMOVED)

=> d ibib abs L9 1-28

L9 ANSWER 1 OF 28 USPATFULL on STN

ACCESSION NUMBER: 2007:36283 USPATFULL <<LOGINID::20070306>>

TITLE: BIONFORMATICALLY DETECTABLE GROUP OF NOVEL VACCINIA
REGULATORY GENES AND USES THEREOF

INVENTOR(S): Bentwich, Itzhak, 65 Kfar Daniel, Kfar Daniel, ISRAEL
73125

PATENT ASSIGNEE(S): ROSETTA GENOMICS, Rehovot, ISRAEL (non-U.S.
corporation)

NUMBER KIND DATE

PATENT INFORMATION: US 2007031823 A1 20070208

APPLICATION INFO.: US 2003-604943 A1 20030828 (10)

NUMBER DATE

PRIORITY INFORMATION: US 2003-441241P 20030117 (60)

DOCUMENT TYPE: Utility

FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: ROSETTA-GENOMICS, 10 PLAUT-STREET SCIENCE PARK, P.O.
BOX 2061, REHOVOT, 76706, IL

NUMBER OF CLAIMS: 20

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 17 Drawing Page(s)

LINE COUNT: 61464

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to a group of novel viral RNA regulatory genes, here identified as "viral genomic address messenger genes" or "VGAM genes", and as "genomic record" or "GR" genes. VGAM genes selectively inhibit translation of known host target genes, and are believed to represent a novel pervasive viral attack mechanism. GR genes encode an operon-like cluster of VGAM genes. VGAM and viral GR genes may therefore be useful in diagnosing, preventing and treating viral disease. Several nucleic acid molecules are provided respectively

encoding several VGAM genes, as are vectors and probes, both comprising the nucleic acid molecules, and methods and systems for detecting VGAM genes, and for counteracting their activity.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 2 OF 28 USPATFULL on STN

ACCESSION NUMBER: 2007:11531 USPATFULL <<LOGINID::20070306>>

TITLE: Methods and compositions for evolving hydrogenase genes

INVENTOR(S): Dillon, Harrison, Palo Alto, CA, UNITED STATES

PATENT ASSIGNEE(S): Dillon, Harrison F. (U.S. corporation)

Solazyme, Inc., Menlo Park, CA, UNITED STATES (U.S. corporation)

NUMBER KIND DATE

PATENT INFORMATION: US 2007009942 A1 20070111

APPLICATION INFO.: US 2006-472839 A1 20060622 (11)

RELATED APPLN. INFO.: Continuation of Ser. No. US 2003-411910, filed on 12

Apr 2003, GRANTED, Pat. No. US 7135290

DOCUMENT TYPE: Utility

FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: Harrison F. Dillon, 3475-T Edison Way, Menlo Park, CA, 94025, US

NUMBER OF CLAIMS: 38

EXEMPLARY CLAIM: 1-38

NUMBER OF DRAWINGS: 17 Drawing Page(s)

LINE COUNT: 1973

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides methods and compositions for engineering microbes to generate Hydrogen. Some methods of the invention involve recoding of hydrogenase genes followed by subjecting the recoded genes to annealing-based recombination methods. The invention further provides methods of mating organisms that are transformed with recoded and recombined hydrogenase genes with other organisms containing different genome sequences.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 3 OF 28 USPATFULL on STN

ACCESSION NUMBER: 2005:305902 USPATFULL <<LOGINID::20070306>>

TITLE: Methods and compositions for evolving microbial hydrogen production

INVENTOR(S): Dillon, Harrison F., Palo Alto, CA, UNITED STATES

PATENT ASSIGNEE(S): Harrison F. Dillon, Palo Alto, CA, UNITED STATES, 94306 (U.S. corporation)

NUMBER KIND DATE

PATENT INFORMATION: US 2005266541 A1 20051201

APPLICATION INFO.: US 2004-763712 A1 20040121 (10)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 2002-287750, filed

on 4 Nov 2002, ABANDONED Continuation-in-part of Ser.

No. US 2003-411910, filed on 12 Apr 2003, PENDING

Continuation-in-part of Ser. No. US 2003-500032, filed

on 3 Sep 2003, PENDING

DOCUMENT TYPE: Utility

FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: SOLAZYME, INC., 3475 - T Edison Way, Menlo Park, CA, 94025, US

NUMBER OF CLAIMS: 39

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 18 Drawing Page(s)

LINE COUNT: 11394

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides methods and compositions for engineering cells to generate large amounts of hydrogen. Genes that are involved in hydrogen production pathways and genes that are upregulated when cells are exposed to conditions conducive to the generation of hydrogen are mutagenized according to disclosed protocols. Microbes containing

nucleic acid constructs are screened or selected for the ability to generate an increased amount of hydrogen. Methods of producing hydrogen are also disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 4 OF 28 USPATFULL on STN
ACCESSION NUMBER: 2004:267716 USPATFULL <<LOGINID::20070306>>
TITLE: Methods and Compositions for Evolving Hydrogenase Genes
INVENTOR(S): Dillon, Harrison, 3797 El Centro, Palo Alto, CA, UNITED STATES 94306
PATENT ASSIGNEE(S): Solazyme, Inc., Mountain View, CA, UNITED STATES, 94040 (U.S. corporation)

NUMBER KIND DATE

PATENT INFORMATION: US 2004209256 A1 20041021
US 7135290 B2 20061114
APPLICATION INFO.: US 2003-411910 A1 20030412 (10)
DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: SOLAZYME, INC., 800 WEST EL CAMINO REAL, SUITE 180, MOUNTAIN VIEW, CA, 94040
NUMBER OF CLAIMS: 63
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 17 Drawing Page(s)
LINE COUNT: 2035
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Abstract of the Disclosure

The invention provides methods and compositions for engineering microbes to generate Hydrogen. Some methods of the invention involve recoding of hydrogenase genes followed by subjecting the recoded genes to annealing-based recombination methods. The invention further provides methods of mating organisms that are transformed with recoded and recombined hydrogenase genes with other organisms containing different genome sequences.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 5 OF 28 USPATFULL on STN
ACCESSION NUMBER: 2004:7465 USPATFULL <<LOGINID::20070306>>
TITLE: Poroplasts
INVENTOR(S): Surber, Mark W., Coronado, CA, UNITED STATES
Giacalone, Matthew, San Diego, CA, UNITED STATES

NUMBER KIND DATE

PATENT INFORMATION: US 2004005700 A1 20040108
APPLICATION INFO.: US 2002-157339 A1 20020528 (10)
DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: KNOBBE MARTENS OLSON & BEAR LLP, 2040 MAIN STREET, FOURTEENTH FLOOR, IRVINE, CA, 92614
NUMBER OF CLAIMS: 18
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 2 Drawing Page(s)
LINE COUNT: 18539
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides compositions and methods for the production of achromosomal and anucleate cells useful for applications such as diagnostic and therapeutic uses, as well as research tools and agents for drug discovery.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 6 OF 28 USPATFULL on STN
ACCESSION NUMBER: 2003:330124 USPATFULL <<LOGINID::20070306>>
TITLE: Minicell-based screening for compounds and proteins that modulate the activity of signalling proteins

INVENTOR(S): Surber, Mark W., Coronado, CA, UNITED STATES
Berkley, Neil, San Diego, CA, UNITED STATES

NUMBER KIND DATE

PATENT INFORMATION: US 2003232335 A1 20031218
APPLICATION INFO.: US 2002-157317 A1 20020528 (10)

NUMBER DATE

PRIORITY INFORMATION: US 2002-359843P 20020225 (60)
DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: KNOBBE MARTENS OLSON & BEAR LLP, 2040 MAIN STREET,
FOURTEENTH FLOOR, IRVINE, CA, 92614
NUMBER OF CLAIMS: 20
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 2 Drawing Page(s)
LINE COUNT: 18564
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The invention provides compositions and methods for the production of
achromosomal and anucleate cells useful for applications such as
diagnostic and therapeutic uses, as well as research tools and agents
for drug discovery.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 7 OF 28 USPATFULL on STN
ACCESSION NUMBER: 2003:318700 USPATFULL <<LOGINID::20070306>>
TITLE: Antibodies to native conformations of membrane proteins
INVENTOR(S): Sabbadini, Roger A., Lakeside, CA, UNITED STATES
Berkley, Neil, San Diego, CA, UNITED STATES
Surber, Mark W., Coronado, CA, UNITED STATES

NUMBER KIND DATE

PATENT INFORMATION: US 2003224444 A1 20031204
APPLICATION INFO.: US 2002-157491 A1 20020528 (10)

NUMBER DATE

PRIORITY INFORMATION: US 2002-359843P 20020225 (60)
DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: KNOBBE MARTENS OLSON & BEAR LLP, 2040 MAIN STREET,
FOURTEENTH FLOOR, IRVINE, CA, 92614
NUMBER OF CLAIMS: 19
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 2 Drawing Page(s)
LINE COUNT: 18559
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The invention provides compositions and methods for the production of
achromosomal and anucleate cells useful for applications such as
diagnostic and therapeutic uses, as well as research tools and agents
for drug discovery.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 8 OF 28 USPATFULL on STN
ACCESSION NUMBER: 2003:318625 USPATFULL <<LOGINID::20070306>>
TITLE: Reverse screening and target identification with
minicells
INVENTOR(S): Surber, Mark W., Coronado, CA, UNITED STATES
Berkley, Neil, San Diego, CA, UNITED STATES
Gerhart, William, La Mesa, CA, UNITED STATES

NUMBER KIND DATE

PATENT INFORMATION: US 2003224369 A1 20031204
APPLICATION INFO.: US 2002-157171 A1 20020528 (10)

NUMBER DATE

PRIORITY INFORMATION: US 2002-359843P 20020225 (60)

DOCUMENT TYPE: Utility

FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: KNOBBE MARTENS OLSON & BEAR LLP, 2040 MAIN STREET,
FOURTEENTH FLOOR, IRVINE, CA, 92614

NUMBER OF CLAIMS: 20

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 2 Drawing Page(s)

LINE COUNT: 18610

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides compositions and methods for the production of
achromosomal and anucleate cells useful for applications such as
diagnostic and therapeutic uses, as well as research tools and agents
for drug discovery.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 9 OF 28 USPATFULL on STN

ACCESSION NUMBER: 2003:312291 USPATFULL <<LOGINID::20070306>>

TITLE: Minicell-based bioremediation

INVENTOR(S): Segall, Anca M., San Diego, CA, UNITED STATES
Klepper, Robert, San Diego, CA, UNITED STATES

NUMBER KIND DATE

PATENT INFORMATION: US 2003219888 A1 20031127

APPLICATION INFO.: US 2002-157418 A1 20020528 (10)

RELATED APPLN. INFO.: Division of Ser. No. US 2002-154951, filed on 24 May
2002, PENDING

NUMBER DATE

PRIORITY INFORMATION: US 2002-359843P 20020225 (60)

US 2001-293566P 20010524 (60)

DOCUMENT TYPE: Utility

FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: KNOBBE MARTENS OLSON & BEAR LLP, 2040 MAIN STREET,
FOURTEENTH FLOOR, IRVINE, CA, 92614

NUMBER OF CLAIMS: 20

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 2 Drawing Page(s)

LINE COUNT: 18632

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides compositions and methods for the production of
achromosomal and anucleate cells useful for applications such as
diagnostic and therapeutic uses, as well as research tools and agents
for drug discovery.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 10 OF 28 USPATFULL on STN

ACCESSION NUMBER: 2003:311814 USPATFULL <<LOGINID::20070306>>

TITLE: Methods of making pharmaceutical compositions with
minicells

INVENTOR(S): Sabbadini, Roger A., Lakeside, CA, UNITED STATES
Klepper, Robert, San Diego, CA, UNITED STATES

NUMBER KIND DATE

PATENT INFORMATION: US 2003219408 A1 20031127

APPLICATION INFO.: US 2002-157320 A1 20020528 (10)

RELATED APPLN. INFO.: Division of Ser. No. US 2002-154951, filed on 24 May
2002, PENDING

NUMBER DATE

PRIORITY INFORMATION: US 2002-359843P 20020225 (60)

US 2001-293566P 20010524 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: KNOBBE MARTENS OLSON & BEAR LLP, 2040 MAIN STREET,
FOURTEENTH FLOOR, IRVINE, CA, 92614

NUMBER OF CLAIMS: 20
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 2 Drawing Page(s)
LINE COUNT: 18632

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides compositions and methods for the production of
achromosomal and anucleate cells useful for applications such as
diagnostic and therapeutic uses, as well as research tools and agents
for drug discovery.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 11 OF 28 USPATFULL on STN
ACCESSION NUMBER: 2003:300375 USPATFULL <<LOGINID::20070306>>
TITLE: Minicell-based delivery agents
INVENTOR(S): Sabbadini, Roger A., Lakeside, CA, UNITED STATES
Klepper, Robert, San Diego, CA, UNITED STATES
Surber, Mark W., Coronado, CA, UNITED STATES

NUMBER KIND DATE

PATENT INFORMATION: US 2003211599 A1 20031113
APPLICATION INFO.: US 2002-157106 A1 20020528 (10)
RELATED APPLN. INFO.: Division of Ser. No. US 2002-154951, filed on 24 May
2002, PENDING

NUMBER DATE

PRIORITY INFORMATION: US 2002-359843P 20020225 (60)
US 2001-293566P 20010524 (60)
DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: KNOBBE MARTENS OLSON & BEAR LLP, 2040 MAIN STREET,
FOURTEENTH FLOOR, IRVINE, CA, 92614

NUMBER OF CLAIMS: 12
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 2 Drawing Page(s)
LINE COUNT: 18671

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides compositions and methods for the production of
achromosomal and anucleate cells useful for applications such as
diagnostic and therapeutic uses, as well as research tools and agents
for drug discovery.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 12 OF 28 USPATFULL on STN
ACCESSION NUMBER: 2003:299865 USPATFULL <<LOGINID::20070306>>
TITLE: Minicell-based selective absorption
INVENTOR(S): Berkley, Neil, San Diego, CA, UNITED STATES
Sabbadini, Roger A., Lakeside, CA, UNITED STATES

NUMBER KIND DATE

PATENT INFORMATION: US 2003211086 A1 20031113
APPLICATION INFO.: US 2002-157073 A1 20020528 (10)

NUMBER DATE

PRIORITY INFORMATION: US 2001-295566P 20010605 (60)
US 2002-359843P 20020225 (60)
DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: KNOBBE MARTENS OLSON & BEAR LLP, 2040 MAIN STREET,
FOURTEENTH FLOOR, IRVINE, CA, 92614

NUMBER OF CLAIMS: 17
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 2 Drawing Page(s)
LINE COUNT: 18553

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides compositions and methods for the production of
achromosomal and anucleate cells useful for applications such as
diagnostic and therapeutic uses, as well as research tools and agents
for drug discovery.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 13 OF 28 USPATFULL on STN
ACCESSION NUMBER: 2003:294815 USPATFULL <<LOGINID::20070306>>
TITLE: Pharmaceutical compositions with minicells
INVENTOR(S): Berkley, Neil, San Diego, CA, UNITED STATES
Klepper, Robert, San Diego, CA, UNITED STATES
Sabbadini, Roger A., Lakeside, CA, UNITED STATES

NUMBER KIND DATE

PATENT INFORMATION: US 2003207833 A1 20031106
APPLICATION INFO.: US 2002-156811 A1 20020528 (10)

NUMBER DATE

PRIORITY INFORMATION: US 2002-359843P 20020225 (60)
DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: KNOBBE MARTENS OLSON & BEAR LLP, 2040 MAIN STREET,
FOURTEENTH FLOOR, IRVINE, CA, 92614
NUMBER OF CLAIMS: 20
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 2 Drawing Page(s)
LINE COUNT: 18585

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides compositions and methods for the production of
achromosomal and anucleate cells useful for applications such as
diagnostic and therapeutic uses, as well as research tools and agents
for drug discovery.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 14 OF 28 USPATFULL on STN
ACCESSION NUMBER: 2003:288723 USPATFULL <<LOGINID::20070306>>
TITLE: Conjugated minicells
INVENTOR(S): Surber, Mark W., Coronado, CA, UNITED STATES
Klepper, Robert, San Diego, CA, UNITED STATES

NUMBER KIND DATE

PATENT INFORMATION: US 2003203481 A1 20031030
APPLICATION INFO.: US 2002-157213 A1 20020528 (10)

NUMBER DATE

PRIORITY INFORMATION: US 2002-359843P 20020225 (60)
DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: KNOBBE MARTENS OLSON & BEAR LLP, 2040 MAIN STREET,
FOURTEENTH FLOOR, IRVINE, CA, 92614
NUMBER OF CLAIMS: 12
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 2 Drawing Page(s)
LINE COUNT: 18551

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides compositions and methods for the production of
achromosomal and anucleate cells useful for applications such as
diagnostic and therapeutic uses, as well as research tools and agents
for drug discovery.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 15 OF 28 USPATFULL on STN

ACCESSION NUMBER: 2003:288653 USPATFULL <<LOGINID::20070306>>

TITLE: Methods of minicell-based delivery

INVENTOR(S): Sabbadini, Roger A., Lakeside, CA, UNITED STATES

Berkley, Neil, San Diego, CA, UNITED STATES

Klepper, Robert, San Diego, CA, UNITED STATES

Surber, Mark W., Coronado, CA, UNITED STATES

NUMBER KIND DATE

PATENT INFORMATION: US 2003203411 A1 20031030

APPLICATION INFO.: US 2002-156792 A1 20020528 (10)

NUMBER DATE

PRIORITY INFORMATION: US 2001-295566P 20010605 (60)

US 2002-359843P 20020225 (60)

DOCUMENT TYPE: Utility

FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: KNOBBE MARTENS OLSON & BEAR LLP, 2040 MAIN STREET,
FOURTEENTH FLOOR, IRVINE, CA, 92614

NUMBER OF CLAIMS: 20

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 2 Drawing Page(s)

LINE COUNT: 18582

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides compositions and methods for the production of
achromosomal and anucleate cells useful for applications such as
diagnostic and therapeutic uses, as well as research tools and agents
for drug discovery.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 16 OF 28 USPATFULL on STN

ACCESSION NUMBER: 2003:288179 USPATFULL <<LOGINID::20070306>>

TITLE: Minicell-based diagnostics

INVENTOR(S): Sabbadini, Roger A., Lakeside, CA, UNITED STATES

Klepper, Robert, San Diego, CA, UNITED STATES

Berkley, Neil, San Diego, CA, UNITED STATES

NUMBER KIND DATE

PATENT INFORMATION: US 2003202937 A1 20031030

APPLICATION INFO.: US 2002-157178 A1 20020528 (10)

NUMBER DATE

PRIORITY INFORMATION: US 2001-295566P 20010605 (60)

US 2002-359843P 20020225 (60)

DOCUMENT TYPE: Utility

FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: KNOBBE MARTENS OLSON & BEAR LLP, 2040 MAIN STREET,
FOURTEENTH FLOOR, IRVINE, CA, 92614

NUMBER OF CLAIMS: 19

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 2 Drawing Page(s)

LINE COUNT: 18527

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides compositions and methods for the production of
achromosomal and anucleate cells useful for applications such as
diagnostic and therapeutic uses, as well as research tools and agents
for drug discovery.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 17 OF 28 USPATFULL on STN

ACCESSION NUMBER: 2003:282746 USPATFULL <<LOGINID::20070306>>

TITLE: Membrane to membrane delivery
INVENTOR(S): Surber, Mark W., Coronado, CA, UNITED STATES
Sabbadini, Roger A., Lakeside, CA, UNITED STATES

NUMBER KIND DATE

PATENT INFORMATION: US 2003199089 A1 20031023
APPLICATION INFO.: US 2002-157318 A1 20020528 (10)

NUMBER DATE

PRIORITY INFORMATION: US 2001-295566P 20010605 (60)
US 2002-359843P 20020225 (60)

DOCUMENT TYPE: Utility

FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: KNOBBE MARTENS OLSON & BEAR LLP, 2040 MAIN STREET,
FOURTEENTH FLOOR, IRVINE, CA, 92614

NUMBER OF CLAIMS: 20

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 2 Drawing Page(s)

LINE COUNT: 18530

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides compositions and methods for the production of
achromosomal and anucleate cells useful for applications such as
diagnostic and therapeutic uses, as well as research tools and agents
for drug discovery.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 18 OF 28 USPATFULL on STN

ACCESSION NUMBER: 2003:282745 USPATFULL <<LOGINID::20070306>>

TITLE: Minicell-based gene therapy

INVENTOR(S): Sabbadini, Roger A., Lakeside, CA, UNITED STATES
Berkley, Neil, San Diego, CA, UNITED STATES
Surber, Mark W., Coronado, CA, UNITED STATES

NUMBER KIND DATE

PATENT INFORMATION: US 2003199088 A1 20031023
US 7183105 B2 20070227

APPLICATION INFO.: US 2002-156902 A1 20020528 (10)

NUMBER DATE

PRIORITY INFORMATION: US 2001-295566P 20010605 (60)
US 2002-359843P 20020225 (60)

DOCUMENT TYPE: Utility

FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: KNOBBE MARTENS OLSON & BEAR LLP, 2040 MAIN STREET,
FOURTEENTH FLOOR, IRVINE, CA, 92614

NUMBER OF CLAIMS: 20

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 2 Drawing Page(s)

LINE COUNT: 15300

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides compositions and methods for the production of
achromosomal and anucleate cells useful for applications such as
diagnostic and therapeutic uses, as well as research tools and agents
for drug discovery.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 19 OF 28 USPATFULL on STN

ACCESSION NUMBER: 2003:282662 USPATFULL <<LOGINID::20070306>>

TITLE: Solid supports with minicells

INVENTOR(S): Sabbadini, Roger, Lakeside, CA, UNITED STATES
Klepper, Robert, San Diego, CA, UNITED STATES

NUMBER KIND DATE

PATENT INFORMATION: US 2003199005 A1 20031023
APPLICATION INFO.: US 2002-157166 A1 20020528 (10)
RELATED APPLN. INFO.: Division of Ser. No. US 2002-154951, filed on 24 May
2002, PENDING

NUMBER DATE

PRIORITY INFORMATION: US 2002-359843P 20020225 (60)
US 2001-293566P 20010524 (60)

DOCUMENT TYPE: Utility

FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: KNOBBE MARTENS OLSON & BEAR LLP, 2040 MAIN STREET,
FOURTEENTH FLOOR, IRVINE, CA, 92614

NUMBER OF CLAIMS: 20

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 2 Drawing Page(s)

LINE COUNT: 18494

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides compositions and methods for the production of
achromosomal and anucleate cells useful for applications such as
diagnostic and therapeutic uses, as well as research tools and agents
for drug discovery.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 20 OF 28 USPATFULL on STN

ACCESSION NUMBER: 2003:282653 USPATFULL <<LOGINID::20070306>>

TITLE: Minicell libraries

INVENTOR(S): Surber, Mark W., Coronado, CA, UNITED STATES
Berkley, Neil, San Diego, CA, UNITED STATES
Gerhart, William, La Mesa, CA, UNITED STATES
Sabbadini, Roger A., Lakeside, CA, UNITED STATES

NUMBER KIND DATE

PATENT INFORMATION: US 2003198996 A1 20031023
APPLICATION INFO.: US 2002-157147 A1 20020528 (10)
RELATED APPLN. INFO.: Division of Ser. No. US 2002-154951, filed on 24 May
2002, PENDING

NUMBER DATE

PRIORITY INFORMATION: US 2001-293566P 20010524 (60)
US 2002-359843P 20020225 (60)

DOCUMENT TYPE: Utility

FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: KNOBBE MARTENS OLSON & BEAR LLP, 2040 MAIN STREET,
FOURTEENTH FLOOR, IRVINE, CA, 92614

NUMBER OF CLAIMS: 20

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 2 Drawing Page(s)

LINE COUNT: 18482

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides compositions and methods for the production of
achromosomal and anucleate cells useful for applications such as
diagnostic and therapeutic uses, as well as research tools and agents
for drug discovery.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 21 OF 28 USPATFULL on STN

ACCESSION NUMBER: 2003:282652 USPATFULL <<LOGINID::20070306>>

TITLE: Forward screening with minicells

INVENTOR(S): Sabbadini, Roger A., Lakeside, CA, UNITED STATES
Berkley, Neil, San Diego, CA, UNITED STATES
Surber, Mark W., Coronado, CA, UNITED STATES
Gerhart, William, La Mesa, CA, UNITED STATES

NUMBER KIND DATE

PATENT INFORMATION: US 2003198995 A1 20031023
APPLICATION INFO.: US 2002-156831 A1 20020528 (10)
RELATED APPLN. INFO.: Division of Ser. No. US 2002-154951, filed on 24 May
2002, PENDING

NUMBER DATE

PRIORITY INFORMATION: US 2002-359843P 20020225 (60)
US 2001-293566P 20010524 (60)

DOCUMENT TYPE: Utility

FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: KNOBBE MARTENS OLSON & BEAR LLP, 2040 MAIN STREET,
FOURTEENTH FLOOR, IRVINE, CA, 92614

NUMBER OF CLAIMS: 15

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 2 Drawing Page(s)

LINE COUNT: 18533

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides compositions and methods for the production of
achromosomal and anucleate cells useful for applications such as
diagnostic and therapeutic uses, as well as research tools and agents
for drug discovery.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 22 OF 28 USPATFULL on STN

ACCESSION NUMBER: 2003:276773 USPATFULL <<LOGINID::20070306>>

TITLE: Minicell compositions and methods

INVENTOR(S): Surber, Mark W., Coronado, CA, UNITED STATES
Sabbadini, Roger A., Lakeside, CA, UNITED STATES

NUMBER KIND DATE

PATENT INFORMATION: US 2003194798 A1 20031016
APPLICATION INFO.: US 2002-154951 A1 20020524 (10)

NUMBER DATE

PRIORITY INFORMATION: US 2001-293566P 20010524 (60)
US 2002-359843P 20020225 (60)

DOCUMENT TYPE: Utility

FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: KNOBBE MARTENS OLSON & BEAR LLP, 2040 MAIN STREET,
FOURTEENTH FLOOR, IRVINE, CA, 92614

NUMBER OF CLAIMS: 18

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 2 Drawing Page(s)

LINE COUNT: 18583

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides compositions and methods for the production of
achromosomal and anucleate cells useful for applications such as
diagnostic and therapeutic uses, as well as research tools and agents
for drug discovery.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 23 OF 28 USPATFULL on STN

ACCESSION NUMBER: 2003:276689 USPATFULL <<LOGINID::20070306>>

TITLE: Minicell-based transformation

INVENTOR(S): Sabbadini, Roger A., Lakeside, CA, UNITED STATES
Berkley, Neil, San Diego, CA, UNITED STATES
Surber, Mark W., Coronado, CA, UNITED STATES

NUMBER KIND DATE

PATENT INFORMATION: US 2003194714 A1 20031016
APPLICATION INFO.: US 2002-157299 A1 20020528 (10)

NUMBER DATE

PRIORITY INFORMATION: US 2001-295566P 20010605 (60)

US 2002-359843P 20020225 (60)

DOCUMENT TYPE: Utility

FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: KNOBBE MARTENS OLSON & BEAR LLP, 2040 MAIN STREET,
FOURTEENTH FLOOR, IRVINE, CA, 92614

NUMBER OF CLAIMS: 20

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 2 Drawing Page(s)

LINE COUNT: 18595

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides compositions and methods for the production of
achromosomal and anucleate cells useful for applications such as
diagnostic and therapeutic uses, as well as research tools and agents
for drug discovery.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 24 OF 28 USPATFULL on STN

ACCESSION NUMBER: 2003:271146 USPATFULL <<LOGINID::20070306>>

TITLE: Minicell-producing parent cells

INVENTOR(S): Surber, Mark W., Coronado, CA, UNITED STATES

Sabbadini, Roger A., Lakeside, CA, UNITED STATES

Segall, Anca M., San Diego, CA, UNITED STATES

Berkley, Neil, San Diego, CA, UNITED STATES

NUMBER KIND DATE

PATENT INFORMATION: US 2003190749 A1 20031009

APPLICATION INFO.: US 2002-157215 A1 20020528 (10)

RELATED APPLN. INFO.: Division of Ser. No. US 2002-154951, filed on 24 May
2002, PENDING

NUMBER DATE

PRIORITY INFORMATION: US 2002-359843P 20020225 (60)

US 2001-293566P 20010524 (60)

DOCUMENT TYPE: Utility

FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: KNOBBE MARTENS OLSON & BEAR LLP, 2040 MAIN STREET,
FOURTEENTH FLOOR, IRVINE, CA, 92614

NUMBER OF CLAIMS: 20

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 2 Drawing Page(s)

LINE COUNT: 18577

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides compositions and methods for the production of
achromosomal and anucleate cells useful for applications such as
diagnostic and therapeutic uses, as well as research tools and agents
for drug discovery.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 25 OF 28 USPATFULL on STN

ACCESSION NUMBER: 2003:271080 USPATFULL <<LOGINID::20070306>>

TITLE: Minicell-based rational drug design

INVENTOR(S): Sabbadini, Roger A., Lakeside, CA, UNITED STATES

Surber, Mark W., Coronado, CA, UNITED STATES

NUMBER KIND DATE

PATENT INFORMATION: US 2003190683 A1 20031009

APPLICATION INFO.: US 2002-157302 A1 20020528 (10)

RELATED APPLN. INFO.: Division of Ser. No. US 2002-154951, filed on 24 May
2002, PENDING

NUMBER DATE

PRIORITY INFORMATION: US 2002-359843P 20020225 (60)

US 2001-293566P 20010524 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: KNOBBE MARTENS OLSON & BEAR LLP, 2040 MAIN STREET,
FOURTEENTH FLOOR, IRVINE, CA, 92614
NUMBER OF CLAIMS: 15
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 2 Drawing Page(s)
LINE COUNT: 18539
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The invention provides compositions and methods for the production of
achromosomal and anucleate cells useful for applications such as
diagnostic and therapeutic uses, as well as research tools and agents
for drug discovery.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 26 OF 28 USPATFULL on STN
ACCESSION NUMBER: 2003:270998 USPATFULL <<LOGINID::20070306>>
TITLE: Target display on minicells
INVENTOR(S): Sabbadini, Roger A., Lakeside, CA, UNITED STATES
Berkley, Neil, San Diego, CA, UNITED STATES
Surber, Mark W., Coronada, CA, UNITED STATES

NUMBER KIND DATE

PATENT INFORMATION: US 2003190601 A1 20031009
APPLICATION INFO.: US 2002-157096 A1 20020528 (10)
RELATED APPLN. INFO.: Division of Ser. No. US 2002-154951, filed on 24 May
2002, PENDING

NUMBER DATE

PRIORITY INFORMATION: US 2002-359843P 20020225 (60)
US 2001-293566P 20010524 (60)
DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: KNOBBE MARTENS OLSON & BEAR LLP, 2040 MAIN STREET,
FOURTEENTH FLOOR, IRVINE, CA, 92614
NUMBER OF CLAIMS: 20
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 2 Drawing Page(s)
LINE COUNT: 18581
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The invention provides compositions and methods for the production of
achromosomal and anucleate cells useful for applications such as
diagnostic and therapeutic uses, as well as research tools and agents
for drug discovery.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 27 OF 28 USPATFULL on STN
ACCESSION NUMBER: 2003:238122 USPATFULL <<LOGINID::20070306>>
TITLE: Minicell-based transfection
INVENTOR(S): Sabbadini, Roger A., Lakeside, CA, UNITED STATES
Berkley, Neil, San Diego, CA, UNITED STATES

NUMBER KIND DATE

PATENT INFORMATION: US 2003166279 A1 20030904
APPLICATION INFO.: US 2002-157391 A1 20020528 (10)
RELATED APPLN. INFO.: Division of Ser. No. US 2002-154951, filed on 24 May
2002, PENDING

NUMBER DATE

PRIORITY INFORMATION: US 2002-359843P 20020225 (60)
US 2001-293566P 20010524 (60)
DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: KNOBBE MARTENS OLSON & BEAR LLP, 2040 MAIN STREET,

FOURTEENTH FLOOR, IRVINE, CA, 92614

NUMBER OF CLAIMS: 18

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 2 Drawing Page(s)

LINE COUNT: 18548

AB The invention provides compositions and methods for the production of achromosomal and anucleate cells useful for applications such as diagnostic and therapeutic uses, as well as research tools and agents for drug discovery.

L9 ANSWER 28 OF 28 USPATFULL on STN

ACCESSION NUMBER: 2003:237942 USPATFULL <<LOGINID::20070306>>

TITLE: Minicells comprising membrane proteins

INVENTOR(S): Sabbadini, Roger A., Lakeside, CA, UNITED STATES

Surber, Mark W., Coronado, CA, UNITED STATES

Berkley, Neil, San Diego, CA, UNITED STATES

Segall, Anca M., San Diego, CA, UNITED STATES

Klepper, Robert, San Diego, CA, UNITED STATES

NUMBER KIND DATE

PATENT INFORMATION: US 2003166099 A1 20030904

APPLICATION INFO.: US 2002-157305 A1 20020528 (10)

NUMBER DATE

PRIORITY INFORMATION: US 2001-295566P 20010605 (60)

US 2002-359843P 20020225 (60)

DOCUMENT TYPE: Utility

FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: KNOBBE MARTENS OLSON & BEAR LLP, 2040 MAIN STREET,

FOURTEENTH FLOOR, IRVINE, CA, 92614

NUMBER OF CLAIMS: 20

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 2 Drawing Page(s)

LINE COUNT: 18580

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides compositions and methods for the production of achromosomal and anucleate cells useful for applications such as diagnostic and therapeutic uses, as well as research tools and agents for drug discovery.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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L1 QUE (HYDROGENASE OR HYDA OR HYDA1)

FILE 'CAPLUS, BIOSIS, SCISEARCH, MEDLINE, EMBASE, PASCAL, LIFESCI, BIOTECHNO, ESBIODBASE, TOXCENTER, CABA, USPATFULL, BIOENG, AGRICOLA, WPIDS' ENTERED AT 13:55:31 ON 06 MAR 2007

L2 24764 S L1

L3 3775 S (GENE OR SEQUENCE OR POLYNUCLEOTIDE OR CLONE OR RECOMBINANT)

L4 387 S (MUTATNT OR VARIANT OR MUTAT7)(S) L3

L5 60 S ((ACTIVE (W) SITE) OR DOMAIN OR MOTIF)(S) L4

L6 3 S OXYGEN (S) L5

L7 29 S OXYGEN AND L5

L8 28 S (RESISTANT OR TOLERANT OR SENSITIVE) AND L7

L9 28 DUP REM L8 (0 DUPLICATES REMOVED)

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